

What is claimed is:

1. A multi-output power conversion circuit supplying electric power from one DC power source to a polyphase AC motor and another device with the polyphase AC motor, comprising:

10 a transformer of which the primary coil is connected to a neutral point of the polyphase AC motor and of which the secondary coil is connected to the other device.

2. The circuit according to claim 1, wherein said polyphase AC motor is a first three-phase AC motor; and

15 said other device is any of an auxiliary power source, a DC motor, and a second three-phase AC motor.

3. The circuit according to claim 1, wherein
20 an AC voltage from the transformer is controlled by changing a command value when the polyphase AC motor is drive-controlled.

4. A multi-output power conversion circuit
25 supplying electric power from one DC power source

to a polyphase AC motor and another device with the polyphase AC motor, comprising:

5 a transformer, one terminal of which primary coil is connected to a neutral point of the polyphase AC motor, another terminal of which the primary coil is connected to a portion of half potential of the DC power source, and which the secondary coil is connected to the other device.

10 5. The circuit according to claim 1, wherein a capacitor is connected in series to said transformer.

15 6. The circuit according to claim 4, wherein a capacitor is connected in series to said transformer.

20 7. A multi-output power conversion circuit supplying electric power from one DC power source to a polyphase AC motor and another device with the polyphase AC motor, comprising:

25 a capacitor, one of which terminals is connected to a neutral point of the polyphase AC motor, and another terminal of which is connected to the other device.

8. A multi-output power conversion circuit supplying electric power from one DC power source to a polyphase AC motor and another device with the 5 polyphase AC motor, comprising:

a transformer of which the primary coil is connected to a neutral point of the polyphase AC motor and of which the secondary coil is connected to the other device; and

10 a capacitor, one of which terminals is connected to a neutral point of the polyphase AC motor, and another terminal of which is connected to a current phase driving the polyphase AC motor.

15 9. A power source which is connected to a DC power source and supplies a power source to a polyphase AC motor and another device, comprising:

a conversion circuit converting output of the DC power source into an AC to be provided for the 20 polyphase AC motor;

a transformer connected to a neutral point of the polyphase AC motor; and

25 a rectifying circuit rectifying output of the transformer and supplying the rectified output to the other device.